

station

1

Verbal

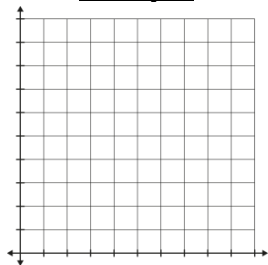
A radio station plays 30 songs in 4 hours. What is the constant of proportionality based on this situation?

Equation
 $x = \text{time (h)}$ 
 $y = \text{number of songs played}$ 

$$y = 7.5x$$

Table

time (h)	2	4	7	9
songs played	15	30	52.5	67.5

Graph

station

2

Verbal

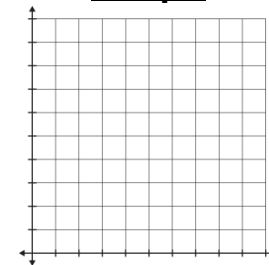
A cleaning company can wash 90 articles of clothing using 6 washing machines. What is the constant of proportionality based on this situation?

Equation
 $x = \text{washing machines}$ 
 $y = \text{articles of clothing}$ 

$$y = 15x$$

Table

washing machines	2	3	5	6
articles of clothing	30	45	75	90

Graph

station

3

Verbal

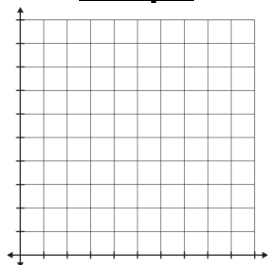
Rose traveled 217.5 miles in 3 hours. What is the constant of proportionality based on this situation?

Equation
 $x = \text{time (h)}$ 
 $y = \text{distance (mi)}$ 

$$y = 72.5x$$

Table

time (h)	1	2	3	4
distance (mi)	72.5	145	217.5	290

Graph

station

4

Verbal

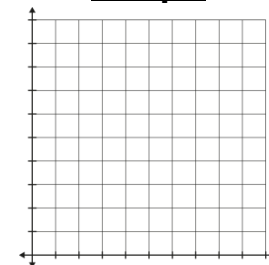
Eden sold cupcakes at a bake sale. She sold a dozen cupcakes for \$42. What is the constant of proportionality based on this situation?

Equation
 $x = \text{cupcakes sold}$ 
 $y = \text{cost (\$)}$ 

$$y = 3.5x$$

Table

cupcakes sold	3	4	7	8
cost (\\$)	10.5	14	24.5	28

Graph

station

5

Verbal

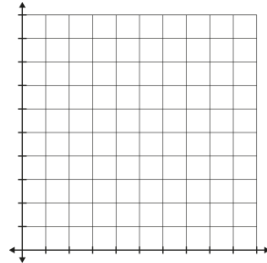
Tanner cycled 8 miles in 20 minutes. What is the constant of proportionality based on this situation?

Equation
 $x = \text{time (min)}$ 
 $y = \text{distance (mi)}$ 

$$y = 0.4x$$

Table

time (min)	2	5	8	10
distance (mi)	0.8	2	3.2	4

Graph

station

6

Verbal

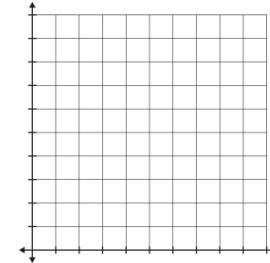
A building company can build 30 houses in one year. How many houses can the company build each month? Find the constant of proportionality based on this situation.

Equation
 $x = \text{months}$ 
 $y = \text{number of houses built}$ 

$$y = 2.5x$$

Table

months	4	5	7	8
houses built	10	12.5	17.5	20

Graph

station

7

Verbal

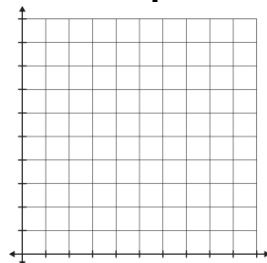
A trucker drove 171 miles in 3 hours. What is the constant of proportionality based on this situation?

Equation
 $x = \text{time (h)}$ 
 $y = \text{distance (mi)}$ 

$$y = 57x$$

Table

time (h)	2	5	7	9
distance (mi)	114	285	399	456

Graph

station

8

Verbal

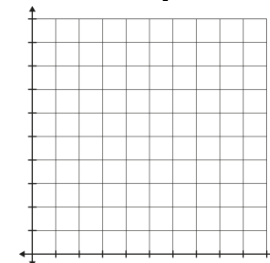
Leigh earned \$312 on 6 personal training sessions. What is the constant of proportionality based on this situation?

Equation
 $x = \text{number of sessions}$ 
 $y = \text{cost (\$)}$ 

$$y = 52x$$

Table

sessions	3	5	8	9
cost (\\$)	156	260	416	468

Graph

station

9

Verbal

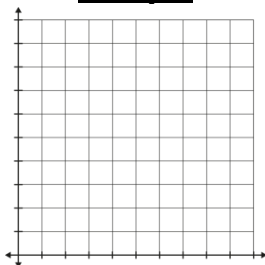
It takes Travis 2 minutes to run half of a mile. What is the constant of proportionality based on this situation?

Equation
 $x = \text{time (min)}$ 
 $y = \text{distance (mi)}$ 

$$y = 0.25x$$

Table

time (min)	3	6	8	9
distance (mi)	.75	1.5	2	2.25

Graph

station

10

Verbal

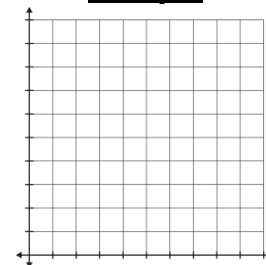
Sam bought six bottles of Dr. Pepper for \$8.10. What is the constant of proportionality based on this situation?

Equation
 $x = \text{bottle of Dr. Pepper}$ 
 $y = \text{cost (\$)}$ 

$$y = 1.35x$$

Table

bottles of Dr. P	2	5	8	9
cost (\\$)	2.7	6.75	10.8	12.15

Graph

station

11

Verbal

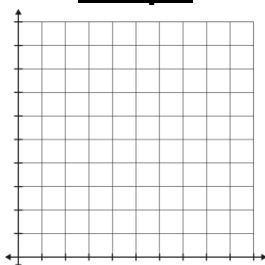
A tree orchard plants 160 trees per week. They work 5 days a week and spend 4 hours each day planting. Find the constant of proportionality to show how many trees they plant per hour.

Equation
 $x = \text{time (h)}$ 
 $y = \text{number of trees planted}$ 

$$y = 8x$$

Table

time (h)	3	5	6	8
trees planted	24	40	48	64

Graph

station

12

Verbal

In 12 hours, Anne picked 108 buckets of strawberries. What is the constant of proportionality based on this situation?

Equation
 $x = \text{time (h)}$ 
 $y = \text{buckets of strawberries}$ 

$$y = 9x$$

Table

time (h)	3	4	7	9
buckets	27	36	63	81

Graph